FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, I	D.C. 20549	
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Check this box if no longer subject	
to Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  KEITHLEY JOSEPH P					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									(Che	ck all app	tor	ng Pe	10% O	wner			
(Last)	(Fir	st) (N	Middle)		3. Da	Date of Earliest Transaction (Month/Day/Year)								+	below	er (give title v)		below)	specify			
C/O AXCELIS TECHNOLOGIES, INC.						6/202					, <b>2</b> ay, 10 a.,											
108 CHERRY HILL DRIVE					<u></u>							₩										
					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street)					1									5		filed by On	e Rep	orting Pers	son			
BEVERI 	LY M	A 0	1915												Form filed by More than One Reporting Person							
(City)	(Sta	ate) (Z	Zip)																			
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Bene	ficial	ly Own	ed						
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day)			y/Year) Execu		Deemed cution Date, ny nth/Day/Year)		3. Transaction Code (Instr. 8)  4. Securitie Disposed Code (Society Code Code Code Code Code Code Code Code		es Acqu Of (D) (I	iired (/ nstr. 3	A) or , 4 and	Securit Benefic	eficially ned Following		wnership n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)						
						Code	v	Amount	(A) (D)	or P	rice	Transa	action(s) 3 and 4)			(						
Common Stock 08/26/2					2021				S		5,000	D	9	48.49	28,585(1)			D				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed ion Date, /Day/Year)	4. Transaction Code (Instr. 8)		of Deriv	r osed ) r. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Date Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)  Amou or Numb of Title Share		str.	. Price of perivative lecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				

## **Explanation of Responses:**

1. Of the shares held as of August 27, 2021, 3,497 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

<u>Lynnette C. Fallon, as attorney</u> 08/27/2021 in fact for Joseph P. Keithley

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.